

Utah Weekly Pertussis Update

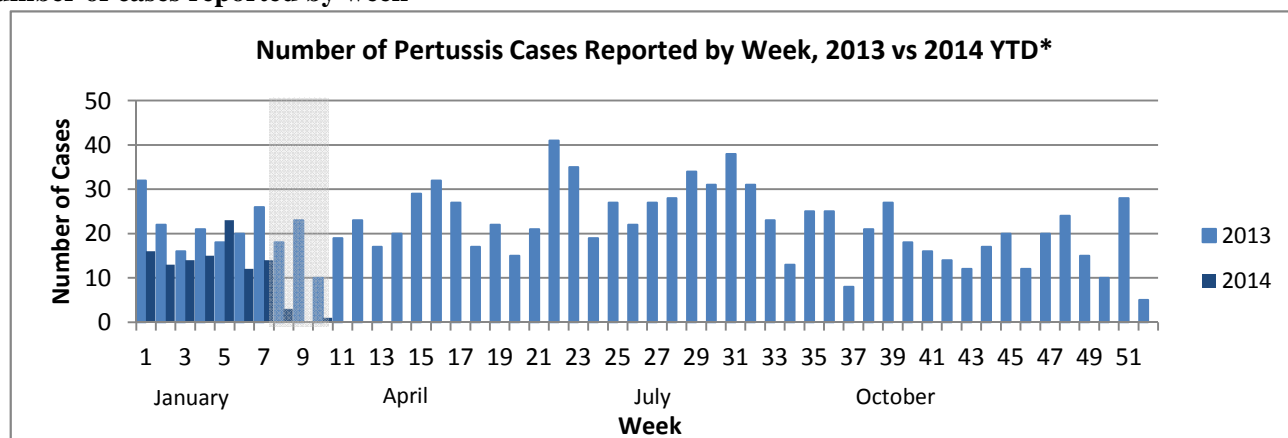
2014 data, through MMWR week ending March 8, 2014 (MMWR week 10)

Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2014 year-to-date (YTD)	114	Utah Incidence rate, 2014 year-to-date (YTD) per 100,000 person-years	21.7
Total number of cases reported 2013	1,219	Utah Incidence rate, 2013 per 100,000 person-years	43.3
Number of cases reported in past week	28	National Incidence rate, 2013 per 100,000 person-years (As of 12/15/13)	7.3
Total number of cases reported, through same time period 2013	196	2014 Hospitalizations	5
Age groups with the highest rates	<1 year 5-14 years	2014 Cases in infants <1 year	8

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2014 Year-to-Date Incidence Rates, By Age

Age (years)	2014 Cases	2010 population	Rate*
<1	8	51,883	84.0
1-4	13	213,904	33.1
5-14	42	494,285	46.3
15-24	31	463,992	36.4
25-34	1	452,752	1.2
35-44	8	348,250	12.5
45-54	6	310,389	10.5
55-64	4	257,365	8.5
65+	1	262,660	2.1
Total	114	2,855,480	21.7

* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2014 Year-to-Date

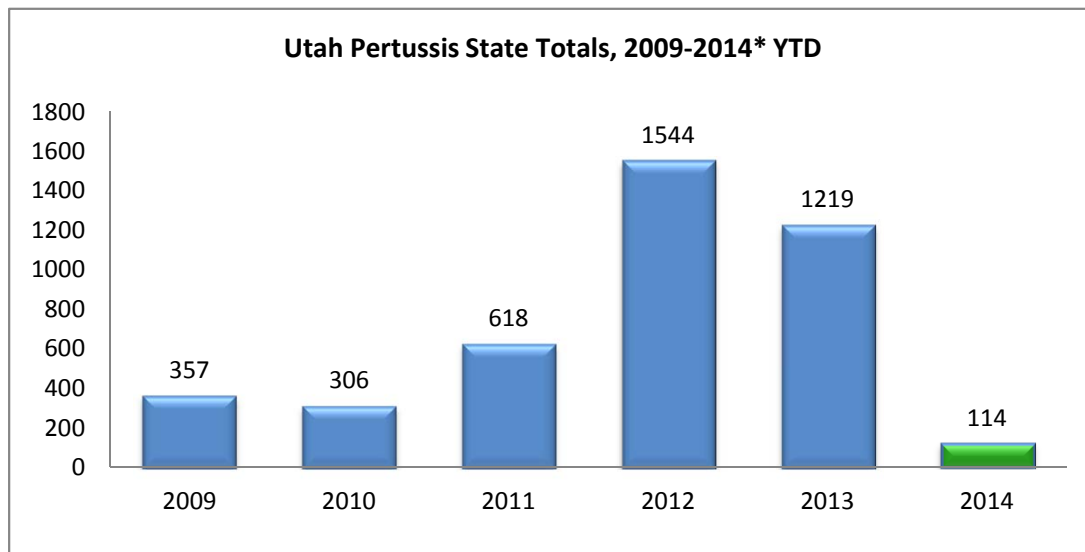
Grade	Age (years)	2014 Cases	2010 Population	Rate*
Preschool	3-4	7	107,474	35.5
Kindergarten	5	3	52,626	31.1
1	6	3	52,405	31.2
2	7	4	51,490	42.3
3	8	2	51,263	21.3
4	9	2	49,029	22.2
5	10	7	49,235	77.5
6	11	5	49,264	55.3
7	12	3	47,284	34.6
8	13	4	46,176	47.2
9	14	9	45,513	107.7
10	15	8	44,006	99.0
11	16	5	44,507	61.2
12	17	4	43,772	49.8

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2013



Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

* 2014 data includes pertussis cases reported year to date. 2009-2013 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2014 YTD

Local Health Department	2014 Cases	Rate*
Bear River	1	3.2
Central Utah	4	28.7
Davis County	10	17.3
Salt Lake Valley	44	22.5
Southeastern Utah	0	0.0
Southwest Utah	2	5.2
Summit County	2	28.7
Tooele County	1	9.1
TriCounty	1	9.9
Utah County	23	23.2
Wasatch County	0	0.0
Weber-Morgan	26	57.5

* Rate is calculated per 100,000 person-years using 2010 Utah population estimates

